

**Westbay
Well Summary**

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Location ID: 200-C Field Representative(s): D. Menzie

Date Started: 12/21/92 Date Completed: 01/29/93

Northing: 225221.27 Easting: 416682.99

Brass Cap: 4810.68 Outer Casing: 4811.02 Inner Casing: 4812.26

Drilling Method: Mud/Air Foam Rotary Drilling Contractor: Larjon Drilling Co.

Driller: J. Gower

Total Depth Borehole: 292' Total Depth Well Casing: 290'

Total Depth Surface Casing: 47.76'

Diameter Well Casing: 2" Diameter Surface Casing: 5"

Water Producing (packed-off) Intervals: 160' to 180'

Water Producing (packed-off) Intervals: 215' to 235'

Water Producing (packed-off) Intervals: 265' to 290'

Water Zone Detected: Multiple fractures Water Level Open Borehole: 126.14' TSC

Water Level Cased Borehole: see pressure profile data

Quik-Foam Use: 5 gallons

Estimated Water Use: 3,400 gallons

Well Casing:

2in x 2ft SCD 80 PVC:	<u>1</u>	=	<u>2</u>	ft
2in x 5ft SCD 80 PVC:	<u>3</u>	=	<u>15</u>	ft
2in x 10ft SCD 80 PVC:	<u>25</u>	=	<u>250</u>	ft
5ft MP packer:	<u>5</u>	=	<u>25</u>	ft
Total SCD 80 PVC pipe:			<u>292</u>	ft

Regular coupling:	<u>24</u>
Pumping port coupling:	<u>3</u>
Measurement port coupling:	<u>6</u>
End cap:	<u>1</u>
Casing Clamp:	<u>1</u>

Surface Casing:

94# bags cement: 10 bags

50# bags bentonite powder 1 bag

Pertinent Field Notes:

12/18/92 Steam clean rig and equipment for drilling surface casing hole. - Kirby

12/21/92 Drill 0'-42' with 7 7/8" tricone button bit. Drilled into bedrock (Hueco limestone) at 35'. - Menzie

12/22/92 Drilled 42'-47' to finish surface casing hole 10' into bedrock. Run 47.76' of 5" steel surface casing and grout annulus from bottom to surface. - Menzie

01/20/93 Steam clean pipe, hammer bit and collars for drilling to TD. - Menzie

01/21/93 Finish setting up to drill. Drill 4" air hammer bit from 46' to 121'. - Menzie

01/22/93 Drill 121' to 180'. Had to replace ruptured hydraulic line. - Menzie

01/25/93 Drill 180' to 230'. Penetration rate is pretty slow through this dense limestone. - Menzie

01/26/93 Drill 230' to 265'. - Menzie

01/27/93 Drill 265' to 291'. Run full suite of geophysical logs. Measure water level at 126.14' TSC. - Menzie

01/28/93 Install Westbay casing and begin inflating packers. - Menzie

01/29/93 Finish inflating packers. Demobilize equipment and clean up site. - Menzie